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NOTICE OF ALLOWANCE AND FEE(S) DUE

50890

P.O. BOX 52050

CAVEN & AGHEVLI c/o INTELLEVATE, LLC

MINNEAPOLIS, MN 55402

7590

05/20/2008

EXAMINER

CHAUDRY, MUJTABA M

ART UNIT

PAPER NUMBER

2112

DATE MAILED: 05/20/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,404	09/10/2003	Niklas Linkewitsch	P17148	5846

TITLE OF INVENTION: FORWARD ERROR CORRECTION MAPPING AND DE-MAPPING TECHNIQUES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS <u>STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notificat	tions.					DATATE FEE ADDRESS TO
CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fe	e(s) Transmittal. Thi	is certificate cannot be used	or domestic mailings of the for any other accompanying ent or formal drawing, must
50890		/2008		Cer	tificate of Mailing or Trans	smission
CAVEN & AG c/o INTELLEVA P.O. BOX 52050	ATE, LLC)		I l St ad tra	ereby certify that that the Postal Service values of the Mail and the USP	is Fee(s) Transmittal is bein vith sufficient postage for fil Stop ISSUE FEE address TO (571) 273-2885, on the o	g deposited with the United est class mail in an envelope above, or being facsimile date indicated below.
MINNEAPOLIS	5, MN 55402					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,404	09/10/2003		Niklas Linkewitsch		P17148	5846
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nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/20/2008
EXAM		ART UNIT	CLASS-SUBCLASS	7	91 / 10	00/20/2000
CHAUDRY, N	ИИЈТАВА М	2112	714-779000	_		
1. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the		1	
CFR 1.303). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(I) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
	ess an assignee is ident h in 37 CFR 3.11. Comp		THE PATENT (print or t data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign n assignment.		document has been filed for
Please check the appropri	iate assignee category or	categories (will not be pa	rinted on the patent):	Individual 🗖 Co	orporation or other private gr	coup entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ A check is enclosed☐ Payment by credit c	ard. Form PTO-2038 by authorized to char	ge the required fee(s), any d	
5. Change in Entity Stat	tus (from status indicate s SMALL ENT1TY statı	,	☐ b. Applicant is no le	nger claiming SMAI	LL ENTITY status. See 37 C	FR 1.27(g)(2)
NOTE: The Issue Fee and	d Publication Fee (if req		ed from anyone other than			the assignee or other party in
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Authorized Signature						
Typed or printed name					То	
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria Virginia 223	ation is required by 37 Citality is governed by 35 dapplication form to the ons for reducing this buirginia 22313-1450. DC 13-1450.	EFR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the DOT SEND FEES OR	on is required to obtain or 1.14. This collection is e y depending upon the ind ac Chief Information Offi COMPLETED FORMS	retain a benefit by t stimated to take 12 p ividual case. Any co cer, U.S. Patent and TO THIS ADDRESS	he public which is to file (an minutes to complete, includi mments on the amount of ti Trademark Office, U.S. Dep S. SEND TO: Commissioner	nd by the USPTO to process) ng gathering, preparing, and time you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/660,404	09/10/2003	Niklas Linkewitsch	P17148	5846	
50890 75	590 05/20/2008		EXAMINER		
CAVEN & AGHEVLI			CHAUDRY, MUJTABA M		
	c/o INTELLEVATE, LLC			PAPER NUMBER	
P.O. BOX 52050 MINNEAPOLIS, I	MN 55402		2112 DATE MAILED: 05/20/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1192 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1192 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	cation No. Applicant(s)		
Notice of Allowability	10/660,404 Examiner	LINKEWITSCH, NIKLAS Art Unit		
	Mujtaba K. Chaudry	2112		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	olication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>response filed 3/14/20</u>	<u>008</u> .			
2. The allowed claim(s) is/are <u>22-63</u> .				
3. ☐ Acknowledgment is made of a claim for foreign priority unallocation of the second of the priority documents have second of the priority documents are second of the priority documents have second of the priority doc	been received. been received in Application No cuments have been received in this rece	national stage applica		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF	
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	on's Patent Drawing Review (PTO-land) s Amendment / Comment or in the C	office action of	s book) of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	he header according to 37 CFR 1.121(d	d).		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			Note the	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal Posts 6. ☐ Interview Summary Paper No./Mail Dat 7. ☒ Examiner's Amendn 8. ☒ Examiner's Stateme 9. ☐ Other /Mujtaba K Chaudry/ Primary Examiner, Art Unit	(PTO-413), e nent/Comment ent of Reasons for Allo	owance	

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DETAILED ACTION

Claims 22-63 are presented for examination. Claims 1-21 are canceled as discussed with Applicants' representative, Ramin Aghevli, May 8, 2008.

Information Disclosure Statement

The references listed in the information disclosure statements (IDS) submitted 12/8/2003, 7/11/2005 and 12/15/2006 were considered. The submission is in compliance with the provisions of 37 CFR 1.97.

Oath/Declaration

The Oath filed December 9, 2003 complies with all the requirements set forth in MPEP 602 and therefore is accepted.

Drawings

The drawings submitted September 10, 2003 are accepted.

Specification

The specification filed September 10, 2003 is accepted.

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issue fee.

Examiner's Amendment

An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the

Authorization for this Examiner's amendment was given in a telephone interview with Ramin

Aghevli on May 8, 2008.

Please amend the application as follows:

Please cancel claims 1-21.

REASONS FOR ALLOWANCE

Claims 22-63 are allowed. The following is an Examiner's statement of reasons for allowance:

Independent claim 22 of the present application teaches, for example, an apparatus comprising: a first mapper to convert a first frame into a second frame, wherein the first frame includes an overhead portion and data portion and wherein the second frame comprises a programmable size and wherein the second frame includes column and row parity information and the overhead portion and the data portion; a synchronizer to specify locations of column and row parity information within the second frame, wherein a synchronization information represents the column and row parity information locations; an encoder to insert column and

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row parity information into the second frame; and a second mapper to convert the second frame into a third frame, wherein the third frame includes the overhead portion, the data portion, the column and row parity information, and the synchronization information. The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "...a first mapper to convert a first frame into a second frame, wherein the first frame includes an overhead portion and data portion and wherein the second frame comprises a programmable size and wherein the second frame includes column and row parity information and the overhead portion and the data portion; a synchronizer to specify locations of column and row parity information within the second frame, wherein a synchronization information represents the column and row parity information locations; an encoder to insert column and row parity information into the second frame; and a second mapper to convert the second frame into a third frame, wherein the third frame includes the overhead portion, the data portion, the column and row parity information, and the synchronization information."

Independent claims 33, 42 and 53 include similar limitations of independent claim 22 and therefore are allowed for similar reasons.

Dependent claims 23-32, 34-41, 43-52 and 54-63 depend from allowable independent claims and inherently include limitations therein and therefore are allowed as well.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mujtaba K. Chaudry whose telephone number is 571-272-3817.

The examiner can normally be reached on Mon-Fri 9-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jacques Louis-Jacques can be reached on 571-272-6962.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Mujtaba K Chaudry/

Primary Examiner, Art Unit 2112

May 8, 2008